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DIRECTOR OF CENTRAL INTELLIGENCE

Security Committee

Research and Development Subcommittee

Minutes
One Hundred Ninety Third Meeting
31 October 1985, 1330 Hours
Ames Building

ATTENDEES

Barry Baxley, Air Force
William E. Schultheis, National Security Agency
Robert A. Bryan, Department of State
Paul W. Von Stein, Department of Army
Darryl Modracek, Department of Army
25X1 [redacted], Central Intelligence Agency 25X1
[redacted] Central Intelligence Agency
[redacted] Central Intelligence Agency
25X1 [redacted] Central Intelligence Agency
25X1 [redacted] Central Intelligence Agency
[redacted] Central Intelligence Agency
Paul Livingston, Interagency Training Center 25X1
Bruce M. Middleton, Department of Navy
Herbert Y. Wong, Federal Bureau of Investigation
Allen Stansbury, Defense Intelligence Agency

1. The Minutes of the October R&D Subcommittee meeting were read and approved, as amended.

2. Mr. Von Stein reported that there had been no progress in the Document Destruction Working Group. He mentioned that he had not been able to attend a Facility Protection Subcommittee meeting, as had been suggested at the previous R&D Subcommittee meeting. He does plan to attend a meeting next month, however.

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3. A discussion followed on whether the Telephone Security Working Group should remain in the R&D Working Group. The TSP and the TSCS are very active in this area. [redacted] suggested that the chairman of the working Group should be contacted and asked where he thought the TSWG should be assigned. A decision was deferred to the next meeting. 25X1

25X1 3. [redacted] pointed out that we are interested in any R&D being conducted by the various telephone working groups. Other subcommittees are more interested in the technical threat or penetration. Mr. Stansbury said he was not sure there was any R&D going on in any telephone group.

25X1 4. [redacted] and Captain Baxley gave a presentation on the Advanced Countermeasures Receiver. Because of the many new members in the Subcommittee, they started with an overview of the program and its background. They pointed out the advantages of the ACMR over the current equipment, reviewed the specs, and discussed its technical performance and operational performance. They said they found it particularly gratifying that their operational requirements had driven the configuration of the equipment. They noted that the program was roughly one year behind schedule. The units are currently expected to cost between [redacted] each. A discussion followed on how many units the different organizations planned to purchase. Captain Baxley said that Air Force planned to purchase between 50-70 units because of the flexibility of the 25X1 ACMR. [redacted] showed pictures of the unit's circuit boards and said that an engineering model would be on display in February. 25X1

5. Mr. Bryan then discussed using EMP to destroy devices. He said he had been contacted by Peter H. Himmelberger of GTE. GTE may have an answer to EMP "neutralization" of clandestine devices. NSA has informed SECOM that they have unfunded work in this area. [redacted] 25X1
25X1 [redacted] said that CIA is also interested in this subject. Mr. Bryan said that Mr. Himmelberger could be reached at GTE Government Systems, Strategic Systems Division, One Research Drive, Westborough, MA 01851, telephone: 617 366-6000, X04097. Mr. Livingston discussed an early study on EMP; he said he would look for the report on the study.

25X1 [redacted]

7. Mr. Livingston passed around a new optical data disc. It is a ROM with 600 megabits of formatted storage. When manufactured in volume, it is relatively inexpensive. The disc is also easy to destroy. When burned, it turns into a blob. One drawback is that access time to a given record is slow, but it compares favorably with a floppy disc. The disc has a plastic coat across the top which prevents damage from dust or fingerprints. Surface pitting

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does not affect reading of the disc. The plastic protective surface will not degrade with time. The same technology is used on audio discs. A number of major suppliers of this disc do business with the Intelligence Community.

25X1 8. [redacted] asked how the amount of data compares with the Winchester. Mr. Livingston said that the amount of information stored per surface area was about an order of magnitude greater. He noted that they are working on a TEMPESTed reader. It is physically small and could be put inside an enclosure. [redacted] asked if 25X1 this would replace Magnetic discs in 10-15 years. Mr. Livingston said that it would not; it was complementary technology. He noted that there will be continued improvement in the cost/performance ratio in magnetic media. He pointed out that this offered real options in the field of density of storage and ability to destroy easily.

9. A report titled "Generation and Recovery of Acoustic Noise (GROAN) Study Program" was distributed to members. Additional copies are available for anyone who would like a copy.

10. The next meeting was scheduled for 21 November. This meeting was subsequently canceled.

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